Docket No.: 0109878.00124US1

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Adam J. Ferrari et al. Confirmation No.: 4504

Application No.: 09/961,131 Art Unit: 2162

Filed: September 21, 2001 Examiner: C. Y. T. Truong

Title: SCALABLE HIERARCHICAL DATA-DRIVEN NAVIGATION SYSTEM AND METHOD FOR INFORMATION RETRIEVAL.

Mail Stop Amendment Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)

Dear Sir:

This Supplemental Information Disclosure Statement is being filed after the mailing date of the first Office Action on the merits and before the mailing date of a final Office Action or a Notice of Allowance.

For the Examiner's convenience, Applicants submit the attached listing of the non-patent references previously submitted in this application along with a brief description of each.

Applicants believe that no fee is due with this response, because all of the references discussed in the attached summary are already of record in this application. However, should a fee be required, the Commissioner is authorized to debit any such fee or credit any overpayment relating the above-identified application to Deposit Account No. 08-0219, Order No. 109878.124-US1.

Application No.: 09/961,131

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Respectfully submitted,

Dated: August 21, 2008

/Carl B. Wischhusen/ Carl B. Wischhusen Registration No.: 43,279 Attorney for Applicant(s)

Wilmer Cutler Pickering Hale and Dorr LLP 399 Park Avenue New York, New York 10022 (212) 230-8800 (telephone) (212) 230-8888 (facsimile)

Non-Patent Literature Citation	Brief Description
AGOSTI, M., et al. "Issues of Data Modelling in	Proposes a information retrieval model which supports an
Information Retrieval" Electronic Publishing,	auxiliary data structure referencing data elements and the
(1991), Vol. 4(4) pp. 219-237	semantic relationships among those elements. User
, , , , , , ,	interactions include navigation through the document collection
	by means of a structure built up of nodes and links, augmented
ALLEN, R.B., "Retrieval From Facet Spaces"	Describes an interface used for accessing document records
Electronic Publishing (1995), Vol. 8(2&3), pp.	organized by faceted classifications. Individual facets may be
247-257	selected and hierarchal refinement performed independently,
ALLEN, R.B., "Two Digital Library Interfaces	Presents two library classification systems, one for Dewey
That Exploit Hierarchical Structure" Electronic	Decimal System and the other for ACM Computing Reviews.
Publishing (1995) 8 pages	An interface allows the user to browse book records using a
AMATO, et al., "Region proximity in metric	Presents an efficient and effective method to compute the
spaces and its use for approximate similarity	proximity of metric ball regions in multidimensional spaces, with
search", ACM Trans. In. System, (2003), Vol.	linearly computational complexity and low storage overhead.
BAEZA-YATES, et al., "New Approaches to	Introduces Attribute-Value System, a networked storage system
Information Management: Attribute-Centric	where objects are composed solely of Attribute-Value pairs.
Data Systems" Proceedings Seventh	Relationships within AVS are dynamic rather than being
BEAUDOIN et al., "Cheops: A Compact	Describes a graphical representation method for the display and
Explorer For Complex Hierarchies", IEEE, pp	manipulation of logical hierarchies, in particular huge, complex
87-92 (1996)	informational hierarchies such as the Dewey Decimal System.
BERGSTROM, "A family of delphi components	Presents a family of Delphi components that implement a
for case-based reasoning", Proceedings 11th	Nearest Neighbor approach to case-based reasoning problems,
BEYER et al., "When is 'Nearest Neighbor'	Explores the impact of higher dimensionality on the "Nearest
meaningful", Proceedings of the 7th	Neighbor" problem, showing that as dimensionality increases,
International Conference on Database Theory",	the distance to the nearest data point approaches the distance
BIRD et al., "Content-Driven Navigation of	Discusses use of Query-by-Image-Content extensions to
Large Databases", The Institution of Electrical	conventional techniques for searching large image databases.
Engineers, 1996, pgs. 13/1 - 13/5	By augmenting traditional text-only indexing, it increases the
CAREY, M. et al., "Info Navigator: A	Presents a text document search engine with several
Visualization Tool for Document Searching and	visualization front ends that aid navigation through the set of
Browsing", Proceedings International	results returned by a query. The methods are based on
Conference Distributed Multimedia Systems",	identifying and selecting keywords on the fly, obtaining a sparse
CHEN et al., "Internet Browsing and Searching:	Catalog entry, including abstract and index terms, for the
User Evaluations of Category Map and Concept	following paper.
Chen et al., "Internet Browsing and Searching:	User evaluation of two approaches proposed to improve
	Internet information access; a Kohonen algorithm category map
Space Techniques," Journal of the American	for browsing, and an automatically generated concept space
Chen et al., "Object Signatures For Supporting	Describes use of hashed signatures in generalization
Efficient Navigation In Object-Oriented	hierarchies, to optimize navigation by quickly eliminating objects
Databases", Proceeding of the 32nd Hawaii	that do not satisfy the predicates or belong to the target class.
CHEN et al., "Online Query Refinement on	Reports findings of empirical research that investigated
Information Retrieval Systems" A Process	informational searcher's online query refinement processes. A
Model of Searcher/System Interactions", MID	semantic network representation is proposed to capture the
CILIBRASI, R. et al., "Automatic Meaning	A method is shown to automatically extract the meaning of
Discovery Using Google", 31 pages, www.bsik-	words and phrases from the World-wide-Web using Google
DIAMANTINI et al., "A conceptual indexing	An indexing method is presented based on the partitioning of
method for content-based retrieval", Database	the data space. Binary counterparts of the notions of minimum
and Expert Systems Applications. Proceedings	volume and minimum overlap are combined to define a global
Tenth Workshop on Florence Italy, (1999), pp.	hierarchal clustering criterion. The indexing method is also

ELLIS, GP et al., "HIBROWSE for Hotels: A new database interface model is presented which provides a bridging the gap between user and system domain oriented view of the database, with user access views of a database", extracts from a paper manipulating the database contents, rather than its structure. giving an overview of the HIBROWSE for The underlying presentation model relies on presentation of lists Hotels of raw, summary, or related results in windows. The user may resents a new technique for navigating hierarchies, called FUA et al., "Structure-Based Brushes: A structure-based brushing, in which it is possible to select a Mechanism For Navigating Hierarchically subset of a hierarchy and explore the selected space in varying Organized Data and Information Spaces", IEEE learnes of detail using drill-up and drill-down operations GARCIA-MOLINA et al., "The Query Compiler" Textbook chapter on SQL query processing, describing Database System Implementation, 2000. anguage syntax and parsing, expression interpretation, and GIL et al., "A Visual Interface and Navigator for Describes a visual interface for an object database which allows the P/FDM Object Database", Department of user to construct queries by clicking on entity classes and Computing Science, University of Aberdeen, relationships in a schema diagram, and constraining the values IEEE, pp. 54-63 (1999) of attributes selected from menus. Results satisfying the query are displayed as a table in a separate window, and values from GUHA et al., "ROCK: A robust clustering After demonstrating that distances between points are not algorithm for categorical attributes", Data appropriate for clustering Boolean and cartegorial attributes, a Engineering Proceedings 15th International solution is presented based on similarity/proximity between a Conference on Sidney, (1999), pp. 512-521 pair of data points. From this, a robust hierarchal clustering algorithm is produced, which uses links rather than distances GUTTMAN, "R-Trees: A dynamic index The R-tree is a dynamic height-balanced tree similar to a B-tree structure for spatial searching", Proceedings of with index records in leaf nodes containing pointers to data the ACM SIG-MOD Conference, (1984) objects. It is particularly useful for indexing representations of data objects of non-zero size in multidimensional spaces, and HAN et al., "Join Index Hierarchy: An Indexing A Join Indexing Hierarchy structure is proposed to handle the Structure For Efficient Navigation In Object-'gotos on disk" problem in object-oriented guery processing. Oriented Databases", IEEE Transactions on The method constructs a hierarchy of join indices and Knowledge and Data Engineering, Vol. 11, No. transforms a series of pointer chasing operations into a simple 2, pp. 321-337, March/April 1999 search into an appropriate join index file. The method supports HAN-JOON, K. et al., "An effective document This paper presents a new type of supervised clustering to clustering method using user-adaptable organize information in a way that reflects knowledge presented distance metrics.", SAC, (2002), pp. 16-20 by the user. A quadratic form distance metric is employed that contains a weight matrix. A variant of the gradient descent HEARST's Fall 1999 Course, SIMS 202 [Presentation slides] HiBrowse problem: search not integrated Information Organization and Retrieval: with browsing of categories, only see subset of categories of HEARST, M. "Chapter 10: User Interfaces and Textbook chapter on user interfaces and information Visualization", Modern Information Retrieval. visualization, discussing methods of communication between Yates and Ribeiro-Neto (1999) pp. 257-340 information seekers and information retrieval systems. Document search and browsing interfaces are discussed, as are methods of displaying results including Kohonen feature maps and document clusters. Graphical interfaces for query HEARST, M. et al., "Integrating Browsing & [Presentation slides] HiBrowse problem: search not integrated Search Relevance Feedback", SIMS 202, UC with browsing of categories, only see subset of categories of HEARST, M. et al., "Using MetaData in Search: [Presentation slides] Presents limitations of search and Combining Browsing and Search", 39 slides category browsing alone, several approaches to integration HEARST, M., et al. "Cat-a Cone; An Interactive A novel user interface is introduced that integrates search and Interface for Specifying Searches and Viewing browsing of very large category hierarchies with their associated Retrieval Results Using A Large Category text collections. A key component is the simultaneous display Hierarchy" Ann. Int. ACM-SIGIR Conf. On Res of the multiple selected category representations, their

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HINNEBURG et al., "What is the nearest	Presents a new approach to nearest neighbor search in high-
neighbor in high dimensional spaces",	dimensional space, which does not treat all dimensions equally,
Proceedings of the 26th VLDB Conference,	instead using a quality criterion to select relevant dimensions (a
(2000)	projection,) with respect to a given query. An example of such a
HONGYAN JING, "Information retrieval based	Presents an approach to information retrieval based on an
on context distance and morphology",	integration of two metrics; closeness of word meaning and word
Proceedings of the 22nd annual international	similarity.
http://www.searchtools.com/tools/endeca.html,	Product summary of Endeca Technologies search and
Search Tools Product Report, "Endeca Faceted	
HUA et al., "Object Skeletons: An Efficient	Networks of unique object identifiers (object skeletons) are
Navigation Structure for Object-Oriented	proposed as a navigational structure to aid query processing of
Database Systems", IEEE, pp. 508-517 (1994)	complex objects. Once a skeleton is loaded into memory,
	navigation along the complex object can be done with no further
	disk access. As the descriptive information of an object is
KUMMAMURU et al., "A Hierarchical	An algorithm for hierarchical monothetic results clustering is
Monothetic Document Clustering Algorithm for	presented which progressively identifies topics in a way that
MCENEANEY, John E., "Visualizing and	Methods are proposed for a more direct representation and
Assessing Navigation in Hypertext", Hypertext	analysis of user movement in hypertext, allowing empirical
99, Darmstadt Germany, pp. 61-70 (1999)	exploration of the relationship of the resulting measures to
	performance in hypertext search tasks. Based on analysis of
	hypertext distance and path matrices, the path metrics path
	compactness and path stratum are defined. Analysis of user
MILLER et al., "DataWeb: Customizable	DataWeb provides an intelligent query facility that builds on
Database Publishing for the Web" IEEE	hypertext-style web applications and decision support systems.
Multimedia, 4(4):14-21(1997)	to allow users to locate data of interest. The test-bed is
, , , , , , ,	operational, and provides access to the Greek National Tourist
MILLER et al., "Integrating Hierarchical	An integrated form of querying and hierarchal navigation is
Navigation and Querying: A User Customizable	proposed, similar to the methods used by data analysis systems
Solution" ACM Multimedia Workshop on	to "drill down" on statistical data. The data visualization is
Effective Abstractions in Multimedia Lavout.	interactive, allowing an initially imprecise query to be refined
MILLER, Renee J., "Using Schematically	Schematic heterogeneity arises when information that is
Heterogeneous Structures", Department of	represented as data in one schema, is represented as
Computer and Information Science, Ohio State	metadata in another schema. Traditional query languages and
University, 1998, pg. 189-200	view mechanisms are insufficient for reconciling and translating
Cintorolly, 1000, pg. 100 200	data between schematically heterogeneous schemas. We
	consider how higher order query languages may be used to
MILLS, J., "The Problem of arrangement in a	An overview, based on a series of lectures on Library cataloging
Library", A Modern Outline of Library	and classification, discussing historical methods of subject-
Classification", Chapman & Hall Ltd, pp. 1-8,	based classification. In particular, raises limitations of legacy
1960	solutions, including difficulties handling synonyms and related
1900	materials, and inadequacy of presenting complex subject matter
PEDERSEN, G.S., "A Browser For	An interface to bibliographic databases is presented which
Bibliographic Information Retrieval Based On	allows non-expert information searchers to operate within a
An Application of Lattice Theory" Proc. Of the	world of concepts, authors, and document records and their
Ann. Int. SCM SIGIR Conference on Res. And	relationships. The presented set of relationships lattice
	diagrams represents a formalization of many information
Deve. In Information Retrieval, (1993), pp. 270- 279	
	retrieval concepts. Separate display window panes display and

PI-SHENG, "Using case-based reasoning for This paper proposes a computational case-based reasoning decision support", Proceedings of the 27th model to be applied to problem solving and decision making in Annual Hawaii International Conference on complex and dynamically changing situations. As the model System Sciences, (1994), pp. 552-561 requires training, it is less applicable to applications where data collection is difficult, or where a set of historical data along with the results of evaluation are not available for the induction of Pollitt A.S., "Intelligent Interfaces to online Historical review of the need for and development of intelligent Databases", Expert Systems for Information interfaces and examines what makes an interface intelligent. Management, Vol. 3, No. 1, pp. 49-69, 1990 Three prototype interfaces are discussed: CANSEARCH, EP-X, and MenUSE. The conclusion suggests that the most POLLITT et al., "Faceted-Classification as Pre-Presentation slides - current methods focus on search within Coordinated Subject Indexing: Multifixed categories (keyword, phrase). Parsing Dewey Decimal Dimensional Searching for OPAC Users", Oslo classification yields a distinct set of hierarchal structured College, 6-7 May 1998 categories. However, it is necessary to build or synthesize numbers to combine concepts. Computer database products use hierarchic or network models to represent data structure and the way it was physically stored. To access different e.g. POLLITT et al., "MenUse for Medicine: End-MenUSE is an advanced intermediary system for end-user User Browsing and Searching of MEDLINE via searching of bibliographic databases. An improvement on the MeSH Thesaurus", Int. Forum Inf. and CANSEARCH, it supports both increased scope and POLLITT et al., "MenUse for Medicine: End-MenUSE is an advanced intermediary system for end-user User Browsing and Searching of MEDLINE via searching of bibliographic databases. An improvement on the MeSH Thesaurus", Int. Forum Inf. and CANSEARCH, it supports both increased scope and Docum., Vol. 13, No. 4, pp. 11-17, October functionality, including a simplified user interface. It was POLLITT et al., "Multilingual access to This paper examines the reasons why approaches to facilitate document databases", CAIS/ACSI '93 document retrieval which apply Expert Systems techniques and Information as a Global Commodity rely on so-called "natural language" query statements from the Communication, Processing and Use, end-user result in sub-optimal solutions. It does so by reflecting POLLITT, A. S. et al., "View-based searching View-based searching techniques employed in prototype systems - a new paradigm for information HIBROWSE interfaces employ a faceted classification model, retrieval based on faceted classification and projecting a view onto databases using navigable hierarchies of indexing using mutually constraining knowledge subject descriptors from thesauri and grouped attribute values. based views", The Interface Design, 6 pages Views inform the user of the number of documents resulting from inclusive searching of descriptors or attribute values and are mutually constraining. Each additional view provides an explicit constraint mechanism to modify the numbers of POLLITT, A.S., "A rule-based system as an This research investigated the possibility of computer searching intermediary for searching cancer therapy carried out directly by the user; the contention is that literature on MEDLINE". Intelligent Information computerized searching will not have their full impact unless Systems: Progress and Prospects, pp. 82-126, direct user access is common, without the specialized 1986 knowledge currently required for such access. In the described system, a processing system is interposed between the user POLLITT, A.S., "An Expert Systems Approach A computerized intermediary system is proposed to facilitate online document retrieval from large scale databases directly by to Document Retrieval. A thesis submitted to the Council for National Academic Awards in users of the retrieved information, without requiring user training partial fulfillment of the requirements for the or particular knowledge of the underlying retrieval system. The degree Doctor of Philosophy", May 1986 rule-based system generates search statements for the underlying databases. The underlying rules, grouped into

Information Intermediary. Tackling Some of the Problems of Naive End-User Search Problems of Naive End-User Search Specification and Formulation", Intelligent Information Systems for the Information Systems for the Information Systems for the Information Systems for the Information Systems or Great Information Systems for the Information Systems or Great Information Systems for the Information Storage and Retrieval Systems, Origin, Development and Applications, Ellis Horwood Books in POLLITT, A.S., "Reducing complexity by rejecting the consultation model as a basis for the design of expert systems", Expert Systems, Nol. 3, No. 4, pp. 234-238, October 1986 such as a season of the MYCIN expert system program. MYCIN were deployed in a clinical setting, due to know logistical miterfaces, data organization, viewdata, hypermedia and othe presentation methods, and use of intermediary or front-end interfaces, data organization, viewdata, hypermedia and othe presentation methods, and use of intermediary or front-end interfaces, data organization, viewdata, hypermedia and othe presentation methods, and use of intermediary or front-end interfaces, data organization, viewdata, hypermedia and the presentation methods, and use of intermediary or front-end interfaces, data organization, viewdata, hypermedia and the presentation methods, and use of intermediary or front-end interfaces, data organization, viewdata, hypermedia and the presentation methods, and use of intermediary or front-end interfaces, data organization, viewdata, hypermedia and othe presentation methods, and use of intermediary or front-end interfaces, data organization, viewdata, hypermedia and othe presentation methods, and use of intermediary of front-end interfaces, data organization, viewdata, hypermedia and othe presentation on the MYCIN expert system program. MYCIN where design of expert system program. MYCIN where desi		
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Specification and Formulation". Intelligent Information Systems for the Information POLLITT, A.S., "Information Storage and Retrieval Systems, Origin, Development and Applications, Ellis Horwood Books in POLLITT, A.S., "Reducing complexity by rejecting the consultation model as a basis for the design of expert systems", Expert Systems, Nol. 3, No. 4, pp. 234-238, October 1986 POLLITT, A.S., "Taking a different view", British Library research, Library Technology, Vol. 1, Nov. 1, 1996 POLLITT, A.S., "Taking a different view", British Library research, Library Technology, Vol. 1, Nov. 1, 1996 POLLITT, A.S., "The key role of classification and indexing in view-based searching", Centre for Database Access Research, University of POLLITT, et al. "HiBROWSE For Bibliographic Databases" Journal of Information Science, (1994), Vol. 20 (6), pp. 413-426 POLLITT, et al. "View-Based Searching Systems - Progress Towards Effective Disintermediation" Online Information Meeting Proceedings, (1996) pp. 433-445 POLLITT, example from EMBASE entitled "Screen Shots from View-based searching with HIBROWSE", (1998) POLLITT, example from EMBASE entitled "Screen Shots from View-based searching with HIBROWSE", (1998) POLLITT, example from EMBASE entitled "Screen Shots from View-based searching with HIBROWSE", (1998) POLLITT, example from EMBASE entitled "Screen Shots from View-based searching with HIBROWSE", (1998) POLLITT, example from EMBASE entitled "Screen Shots from View-based searching with HIBROWSE", (1998) POLLITT, example from EMBASE entitled "Screen Shots from View-based searching with HIBROWSE", (1998) POLLITT, example from EMBASE entitled "Screen Shots from View-based searching with HIBROWSE", (1998) POLLITT, example from EMBASE entitled "Screen Shots from View-based searching with HIBROWSE", (1998) POLLITT, example from EMBASE entitled "Screen Shots from View-based searching with HIBROWSE", (1998) POLLITT, example from EMBASE entitled "Screen Shots from View-based Searching Market State State State State State S		
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PCLLITT, A.S., "Indemation Storage and Retrieval Systems, Origin, Development and Applications, Ellis Horwood Books in PCLLITT, A.S., "Reducing complexity by rejecting the consultation model as a basis for the design of expert systems," Expert Systems, Vol. 3, No. 4, pp. 234-238, October 1986 PCLLITT, A.S., "Taking a different view", Britts Library research, Library Technology, Vol. 1, Nov. 1, 1996 PCLLITT, A.S., "Taking a different view", Britts Library research, Library Technology, Vol. 1, Nov. 1, 1996 PCLLITT, A.S., "The key role of classification and indexing in view-based searching", Centre for Database Access Research, University of PCLLITT, et al. "HIBROWSE For Bibliographic Databases" Journal of Information Science, (1994), Vol. 20 (6), pp. 413-426 PCLLITT, et al. "View-Based Searching Systems - Progress Towards Effective Disintermediation" Online Information Meeting Proceedings, (1996) pp. 433-445 This paper presents the background and development of such a sample keyword, command line, forms-based or hypertext linking interaction. View-based searching with HIBROWSE intermediation" Online Information Meeting Proceedings, (1996) pp. 433-445 This paper presents the background and development of such epichocomic and indexing in view-based searching with HIBROWSE in the interface provides improved searching functional of users of bibliographic databases. The interface provides improved searching functional of users of bibliographic databases. The HIBROWSE in paper presents the background and development of such epichocomic and interface interface issues, in particular its inability to access information already stored in other computer systems within wandoe the same facility. Thus, further developted in other computer systems withing information and ineady stored in other computer systems withing information refrieval to describing makes and provides information refrieval to establish and the provided information refrieval to establish and the provided information refrieval to establish and the provi	Specification and Formulation", Intelligent	naïve users wanting to search the MEDLINE database. The
Retrieval Systems, Origin, Development and Applications, Ellis Horwood Books in herfaces, data organization, viewdata, hypermedia and othe presentation methods, and use of intermediary or front-end research, and the design of expert system program. MYCiN where deployed in a clinical setting, due to know logistical meuna-interface issues, in particular its inability to access information already stored in other computer systems within the same facility. Thus, further development of such systems must also incorporate consideration of data capture strategies, not according to the MYCiN expert system program. MYCiN where deployed in a clinical setting, due to know logistical experts when the design of expert systems within the same facility. Thus, further development of such systems unal so incorporate consideration of data capture strategies, not database by aggregating available attribute (or facet) value. These views can be progressively refined by browsing, or by HIBROWSE is that the interface presents views of database by aggregating available attribute (or facet) value. These views can be progressively refined by browsing, or by HIBROWSE for EMBASE utilizes a faceted classification and indexing in view-based searching? Centre for Databases Access Research, University of POLLITT, et al. "View-Based Searching Systems - Progress Towards Effective Disintermediation" Online Information Meeting Proceedings, (1996) pp. 433-445 POLLITT, et al. "View-Based Searching Systems - Progress Towards Effective Disintermediation" Online Information Meeting Proceedings, (1996) pp. 433-445 This paper presents the background and development result inking interaction. View-based searching with HIBROWSE; (1998) pp. 433-445 The HIBROWSE design offers improved searching functions and classification. The user interrogates the database by multi-windowed view of data stored on a relational data management system, and development result in the progression of the MYCiN was and searching of the MYCiN was and searching of the MYCiN was a	Information Systems for the Information	program provides an intermediary or access system, using
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Pollitt, except from "Prospects for using Dewey Classification in a View-based Searching OPAC Dewey Decimel Classification: Possibilities in View-based Searching OPAC," (1998) POLLITT, S., "CanSearch: An Expert Systems Approach to Document Retrieval", Information Processing & Management, Vol. 23, No. 2, pp.		attribute value hierarchy, selection of elements within windows
Dewey Classification in a View-based Searching OPAC Dewey Decimel classification; Possibilities in View-based Searching OPAC", (1998) POLLITT, S., "CanSearch: An Expert Systems POLLITT, S., "CanSearch: An Expert Systems Processing & Management, Vol. 23, No. 2, pp. If xed categories (keyword, phrase). Parsing Dewey Decimal classification yields a distinct set of hierarchal structured categories. However, it is necessary to build or synthesize numbers to combine concepts. Ideally a fully faceted A computerized intermediary system is used to facilitate onlin document retrieval from large-scale searchable databases, directly by users of the retrieved information. The scope for a computer of the processing of		for refinement/modification, automatic refresh of all windows as
Searching OPAC Dewey Decimel Classification: Possibilities in View-based Searching OPAC', (1998) POLLITT, S., "CanSearch: An Expert Systems Approach to Document Retrieval", Information Processing & Management, Vol. 23, No. 2, pp.	POLLITT, excerpt from "Prospects for using	Presentation slides - current methods focus on search within
Classification: Possibilities in View-based searching OPAC", (1998) POLLITT, S., "CanSearch: An Expert Systems Approach to Document Retrieval", Information Processing & Management, Vol. 23, No. 2, pp.	Dewey Classification in a View-based	
Searching OPAC", (1998) POLLITT, S., "CanSearch: An Expert Systems A computerized intermediary system is used to facilitate onlind document retrieval from large-scale searchable databases, Processing & Management, Vol. 23, No. 2, pp. directly by users of the retrieved information. The scope for a	Searching OPAC Dewey Decimel	classification yields a distinct set of hierarchal structured
POLLITT, S., "CanSearch: An Expert Systems A computerized intermediary system is used to facilitate onlin document to Document Retrieval", Information Processing & Management, Vol. 23, No. 2, pp. directly by users of the retrieved information. The scope for a	Classification: Possibilities in View-based	categories. However, it is necessary to build or synthesize
Approach to Document Retrieval", Information document retrieval from large-scale searchable databases, Processing & Management, Vol. 23, No. 2, pp. directly by users of the retrieved information. The scope for a	Searching OPAC", (1998)	numbers to combine concepts. Ideally a fully faceted
Processing & Management, Vol. 23, No. 2, pp. directly by users of the retrieved information. The scope for a	POLLITT, S., "CanSearch: An Expert Systems	A computerized intermediary system is used to facilitate online
	Approach to Document Retrieval", Information	document retrieval from large-scale searchable databases.
	Processing & Management, Vol. 23, No. 2, pp.	directly by users of the retrieved information. The scope for a
[119-138, (1987) Inovel intermediary system relating to recent developments in	119-138, (1987)	novel intermediary system relating to recent developments in
expert systems has been identified, and a system called	, ,	
	PriceSCAN.com, Your Unbiased Guide to the	Screen shots of the PriceSCAN web site as of June 14, 2004.
		Shows selection of product category and hierarchy of products
		within that category, displayed using HTML links. Also shows
national desired and a series of the	[

Indiana di Companya di Company	Territoria de la constanta de
PRISS, U. et al., "Utilizing Faceted Structures	This paper argues that a faceted thesaurus represents a
for Information Systems Design", School of	desirable model for a small-scale institutional website. The
Library and Information Science, Indiana	faceted approach can make the process of organization less
University Bloomington, pp. 1-12	random and more manageable. The study underscores the
RAMASWAMI et al., "Navigating a Protection-	The article focuses on the features of a relational database and
Engineering Data Base", IEEE, pp. 27-32, April	database editor, as components of a larger computer-aided
1989	protection engineering system. As is common, the relational
	database model is based on tables of records, each uniquely
	identified by primary key fields, with tables structured into larger
	virtual tables called "views". The database editor supports
SALTON et al., "Term-weighting approaches in	Experimental evidence indicates that text indexing systems
automatic test retrieval", Information Processing	based on the assignment of appropriately weighted single terms
& Management, (1988), Vol. 24(5), pp. 513-523	produce retrieval results that are superior to those obtained with
1 " " " " " " " " " " " " " " " " " " "	more elaborate text representations. However, these results
Screenshots from "View-based searching with	Screen shots showing separate windows for each facet or
HIBROWSE".	attribute value hierarchy, selection of elements within windows
	for refinement/modification, automatic refresh of all windows as
SHAMOS et al., "Closest-point problems",	A number of problems involving proximity of N points in the
Proceedings of the 16th Annual Symposium on	plane are studied, such as finding the Euclidean minimum
	spanning tree, smallest circle enclosing the set, k nearest and
l outdations of computer Science, ILLL (1973)	farthest neighbors, two closest points, and straight-line
*	triangulation. For most problems a lower complexity bound if
	O(N log N) is shown. For all, an upper complexity bound is
OTODY OA A LITT DILIP	O(N^2) or worse. A single geometric structure called the Voroni
STORY, G.A., et al., "The RightPages Image-	The RightPages system provides a user interface which alerts
Based Electronic Library for Alerting and .	users of the arrival of new journal articles, lets them examine
Browsing* Computer, (1992), Vol. 25(9), pp. 17-	
25	paper copies of any article in the database. As incoming
	documents may be presented in either text or image form, an
	integrated OCR application is provided to create searchable and
TREGLOWN, M. et al., "HIBROWSE for	Project review of the HIBROWSE program, focusing on the
Bibliographic Databases: A study of the	application of methods and techniques from human-computer
application of usability techniques in view-based	interaction design in the development, construction, and
TU et al., "Agent Technology for Website	This paper discusses the issue of website browsing and
Browsing and Navigation", Proceedings of the	navigation, that is, traversing within the confines of a website
32nd Hawaii International Conference on	and collecting information. The investigation includes
Systems Sciences", IEEE, pp. 1-10, 1999	discussion how a website browsing agent may utilize user
TURINE et al., "A Navigation-Oriented	A navigation-oriented model for hyperdocument specification is
Hypertext Model Based on Statecharts".	proposed, based on statecharts. This extension to HTML uses
Hypertext 97, Southampton UK, 1997	the structure and execution semantics of statecharts to specify
1,7,5	the structural organization and the browsing semantics of the
	hypertext documents. This new model is particularly suitable for
	formally structured documents that present a hierarchal
	structure such as books, scientific papers, online manuals and
VELEZ et al., "Fast and Effective Query	Query Refinement is the interactive recommendation of new
Refinement", SIGIR 1997, pgs. 6-15	terms related to a particular query, which may more accurately
Intelligent , Signy 1997, pgs. 0-15	reflect the user's information need. This study describes
	experimental measures and methods used to assess the quality
L	of suggested query refinements. It also introduces RMAP, a fast

U.S. Patent Appln. 09/961,131 Atty. Dock. 0109878.00124US1

Weiland et al., "A graphical query interface	A method of organizing documents based on the concepts of
based on aggregation/generalization	aggregation and generalization hierarchies is proposed. A
hierarchies," Information systems, Vol. 18,	graphical user interface is provided which supports a more
No.4, pp. 215-232 (1993)	intuitive form of Boolean query, based on mapping the nodes of
	the aggregation hierarchy to Boolean intersection operations,
XIONG et al., "Taper: A Two-Step Approach for	Given a user-specified minimum correlation threshold, an all-
All-Strong-Pairs Correlation Query in Large	strong-pairs correlation query finds all item pairs with above-
Databases", IEEE Transactions on Knowledge	threshold correlation. However, when the number of items and
and Data Engineering, Vol. 18, No. 4, April	transactions are large, the computational cost of this operation
2006, pgs. 493-508	can be very high. A more efficient two-step algorithm is
Yahoo 1996 (Exhibit 12-16)	Reference screen shots of the Yahoo! website browsing and
Yahoo!, Copyright 1999 Yahoo! Inc.,	Reference screen shots of the Yahoo! website browsing and
http://web.archive.org/web/19991116151216/h	searching interfaces, from the Internet Archive, circa 1999,
YOO et al., "Towards A Relationship Navigation	Relational Navigation Analysis provides a systemic way of
Analysis", Proceedings of the 32nd Hawaii	identifying useful relationships in application domains, using a
International Conference on System Sciences",	generic relationship taxonomy. Once so identified, relationships